

<b>Title: Mineral Sunscreen</b>	<b>Formulation #: KL4-94</b>
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*Elegant inorganic sunscreen with a powdery soft skinfeel. Celltice™ enables this incredible texture by functioning as the primary emulsifier through a micellar-free Pickering mechanism, all the while acting as an anti-inflammatory by reducing the production of PGE-2 and IL-alpha after UV exposure. A great starting point for a new non-whitening mineral sunscreen sure to please!*

Feature	Product Type	Product Function	Method
	Inorganic sunscreen	Inorganic sunscreen	Cold process

### Key Ingredients

Trade Name	INCI Name	Wt%
Phase A		
Deionized Water	Water	35.70
Keltrol® CG-T (CP Kelco)	Xanthan Gum	0.60
1,3 Butylene Glycol	Butylene Glycol	5.00
Versene™ Na <sub>2</sub> (Dow Chemical)	Disodium EDTA	0.10
Eusolex T-Avo (Merck)	Titanium Dioxide (and) Silica	6.00
UV CUT ZnO-50-W (Grant Industries)	Zinc Oxide (and) Aqua (and) Glycerin (and) Sodium Polyacrylate (and) Phenoxyethanol (and) Xanthan Gum (and) Chlorphenesin	18.00
Potassium Sorbate	Potassium Sorbate	0.10
NeoDefend (Lotion Crafter)	Gluconolactone (and) Sodium Benzoate	1.50
Celltice® WM (Renmatix)	Water (and) Acer Rubrum Extract (and) Glycerin	15.00
Phase B		
Vegelight 1214LC (Grant Industries)	Coconut Alkanes (and) Coco-Caprylate/Caprates	5.00
Dermol PETO-E (Alzo International)	Pentaerythrityl Tetraethylhexanoate	2.00

Wickenol 171 (ALZO International)	Ethylhexyl Hydroxystearate	1.00
Phase C		
Gransil PC-12 (Grant Industries)	Isododecane (and) Polysilicone-11	1.00

**Instructions:**

- 1) In main vessel add Deionized Water, dissolve Butylene Glycol, Versene Na<sub>2</sub>, NeoDefend, Potassium Sorbate. Disperse Keltrol CG-T.
- 2) Disperse Eusolex T-Avo, UV Cut ZnO-50-W, Celltice WM. Homogenize to uniformity with not visible undispersed material.
- 3) Combine Phase B add to main vessel with homogenizing.
- 4) Add Phase C to main vessel with homogenizing. Mix until uniform.

**pH:** 6.97

**Viscosity:** 98729\*

*\*Brookfield LVDVII+, TF 0.6 rpm 1 min, Helipath On*

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